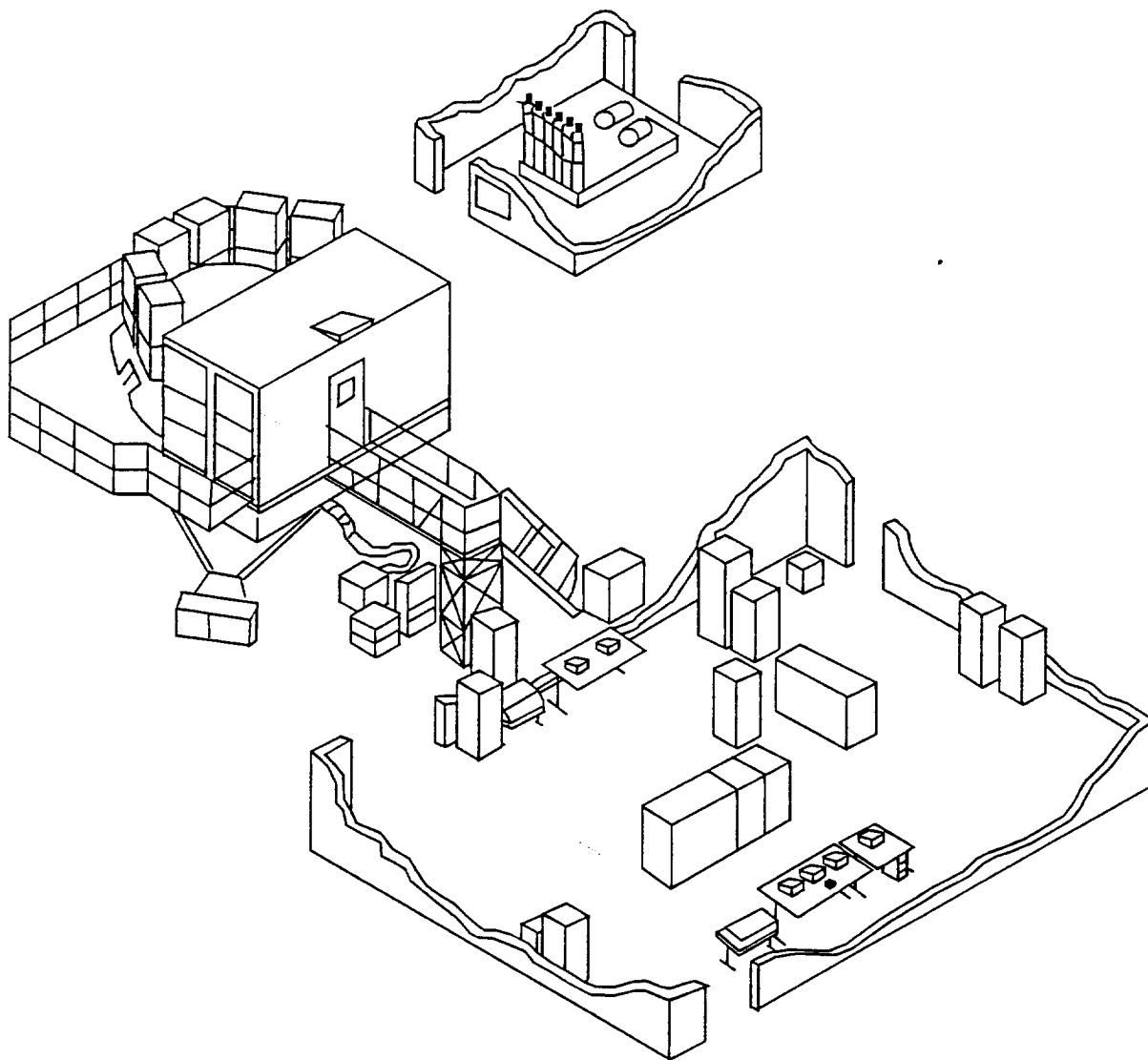


SUMMARY OF THE KC-130T OFT VISUAL SYSTEM UPGRADE

May 1996

Device 2F152



TRAINING CATEGORY:

Aviation

ORIGINATING AGENCY:

Naval Air Warfare Center Training
Systems Division

SECURITY CLASSIFICATION OF DEVICE:

Device 2F152 is unclassified.

PURPOSE OF THE DEVICE:

To provide realistic out the window visual
scenes in support of flight training and
specialized mission rehearsal.

INTENDED USE:

Operational Flight Simulation Training at
Cherry Point MCAS, North Carolina, for
Fleet Replacement Squadron, VMGRT-245.
Training conducted in normal and emergency

aircraft procedures as well as tactical mission requirements.

FUNCTIONAL DESCRIPTION

The KC-130T OFT Visual System Upgrade Replaces the Compu-Scene II Image Generator and XKD 1952 Video Monitors with the Compu-Scene VI Image Generator and the Government furnished XKD 8000 Video Monitors. The Compu-Scene VI consists of 3 cabinets assembled as one unit, and the console group for operational control and maintenance.

Modification of existing KC-130 OFT software was minimized by the use of a desk top sized computer for interface between the OFT and Image Generator. This Interface Computer in conjunction with the software upgrades to the Instructor Station allow the KC-130 instructors to exploit the special features available in the C VI Image generator.

The newer Image Generator and visual monitors increase the visual capabilities while simultaneously lowering maintenance requirements and increasing overall supportability. The upgraded system can utilize the newer data bases that are available with their increased size, level of detail, image resolution and specialized visual mission capabilities.

The improved visual scene realism creates a more realistic visual training environment, thus, increasing the type of training that can be preformed and the effectiveness of all training scenarios.

PHYSICAL INFORMATION:

Number of Pieces:

Four Major Pieces, Five Peripherals
Three Misc. and Six GFE Units

Compu-Scene VI Image Generator (I.G.):

Unit 90 Interface Computer
Unit 100 I.G.
Unit 110 I.G.
Unit 120 I.G.

Console Group:

Maintenance Monitor
System Terminal w/kbrd.
Maintenance Terminal w/kbrd.
Interface Computer Terminal w/kbrd.
Printer
Table, Chair & Storage Cabinet

Government Furnished Property (GFE):

Visual System Monitors (6 ea.) with support devices.

Size:

Image Generator:

Units 100, 110 & 120 assembled;
6' high x 3' deep x 13' long
Weight: 5,900 pounds

Console Group:

Configured on table:
45" high x 35' deep x 70' wide
Weight: 290 pounds
(chair and storage cabinet not included)

Government furnished equipment:

Each Monitor: 19" high x 24" deep x 19" wide. Weight: 200 pounds

EQUIPMENT REQUIREMENTS

KC-130 Operational Flight Trainer with
Compatible Visual Support Structure

POWER REQUIREMENTS:

Image Generator:

208/120 volts, 60 Hz, 3 phase, 22 KVA.

GFE Visual Monitors (6 ea.)

120 volts, 60 Hz., 7 KVA

PUBLICATIONS FURNISHED:

Instructor Utilization Handbook, Display Sub-system
Operation and Maintenance Manual, Visual System
Utilization Manual and Commercial Off The Shelf
Manuals for the Image Generator Operation and
Maintenance. (All publications are unclassified.)

PERSONNEL:

User determined: Instructors, Operators and
Maintenance Personnel.

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